

FIG. 1A

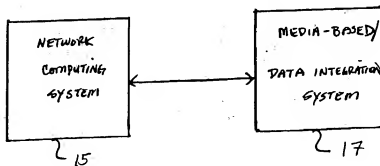
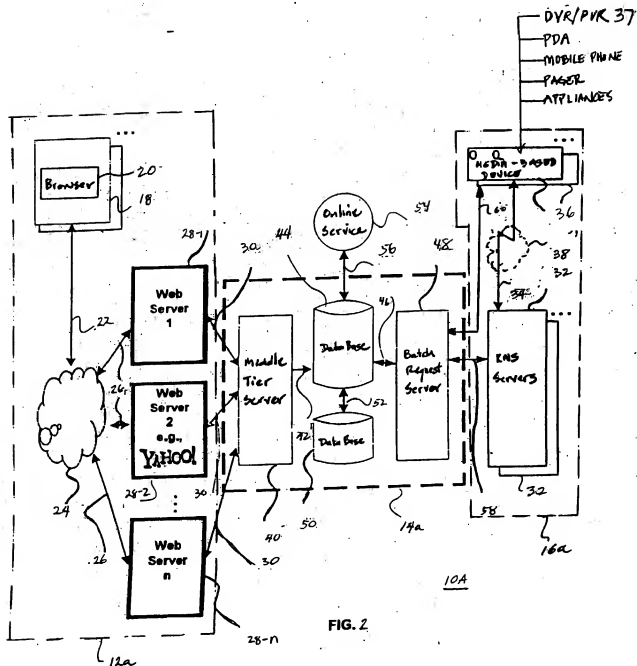
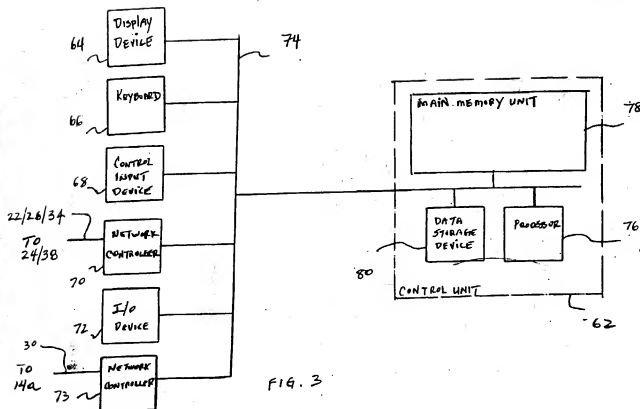


FIG. 1B



18/28/40/32/48/36



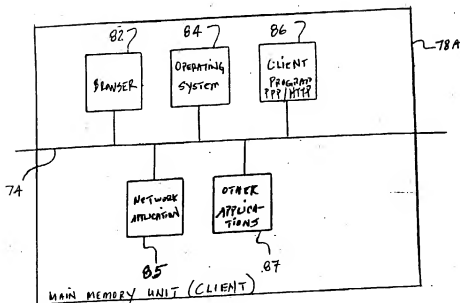


FIG. 4A

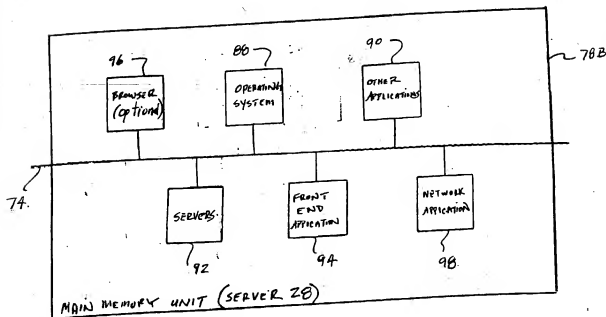


FIG. 4B

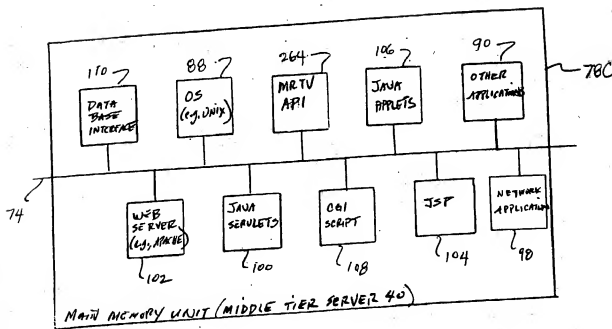


FIG. 4C

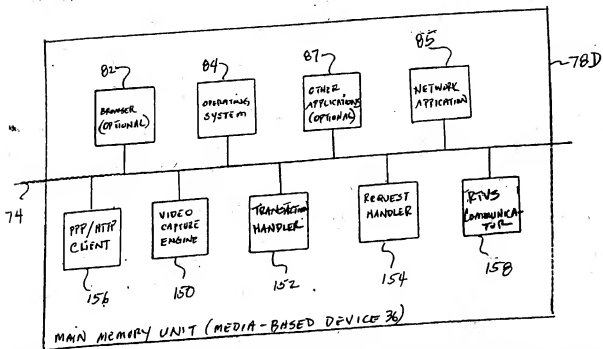
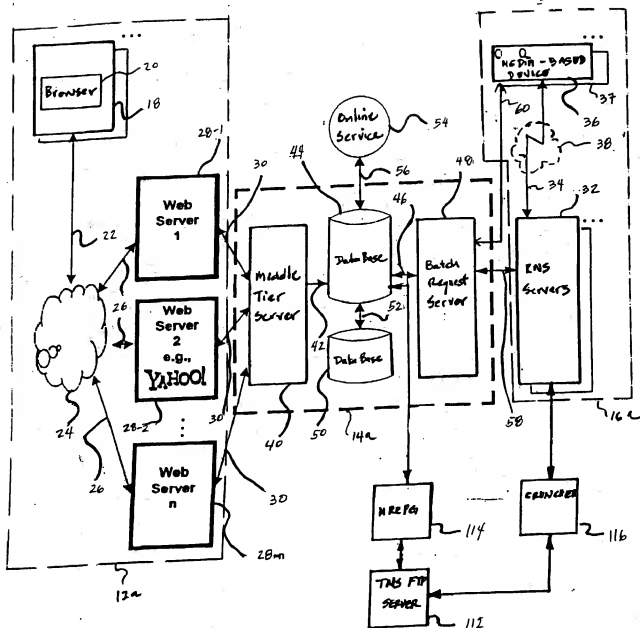


FIG. 4D



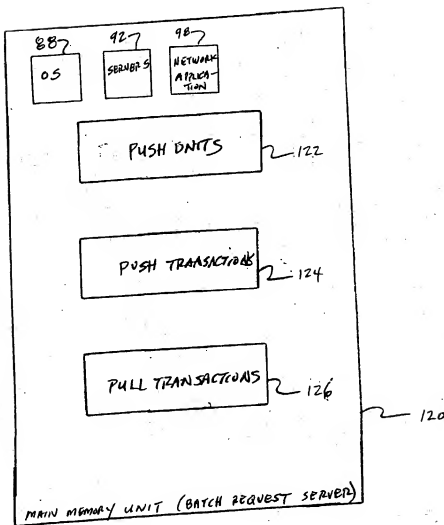


FIG. 6

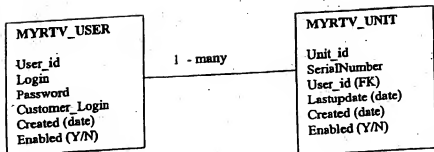


FIG. 7

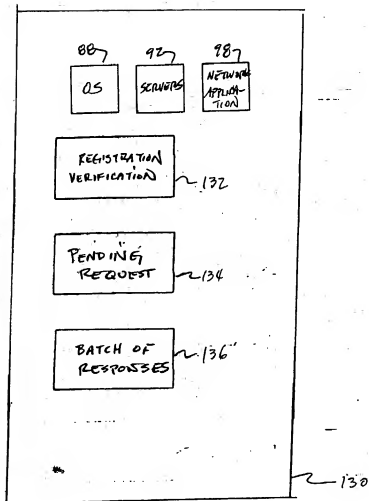


FIG. 8

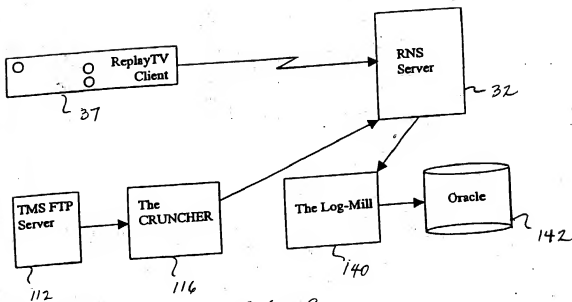


FIG. 9

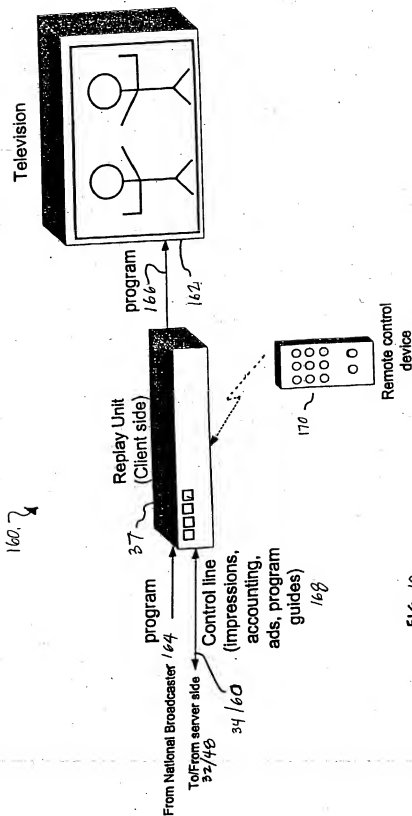


Fig. 10

myr replaytv

managing personal information

user name:

password:

☐ remember my password [forgot my password](#)

Are you a new user to the myreplaytv website?

[help](#) [Contact Us](#)

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184

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FIG. 11



Channel Guide

Preferences Help Logout

Channel Guide | My Channel Guide | My Channel Guide | My Channel Guide

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Tue 3/06

0 OXYGEN

1 IN1

2 KTVU

3 LOOR003

4 KRON

5 KPTX

6 KICU

7 KGO

8 KTSF

9 KQED

10 KTEH

11 TVGOS

12 KBHK

13 KBWB

14 KDTV

An Officer and a Gentleman

Me, Myself & Irene

6 O'Clock Ne...

Local Origination

NewsCenter 4 at 6

CBS News

Home Improve...

ABC 7 News at 6PM

TV Patrol

Zoboomafoo

BBC World Ne...

TV Guide

The Simpsons

The Drew Car...

Noticias 14

Today 03/06

6:30 PM

7:00 PM

7:30 PM

Scary Movie

Sinfeld

Local Origination

Frasier

Evening Maga...

Family Feud

Jeopardy!

Little Salgo...

The NewsHour With Jim Le...

Antiques Roa...

TV Guide

Friends

Power of Att...

Carta de Angel

6:00 PM

7:00 PM

7:30 PM

Scary Movie

Sinfeld

Local Origination

Frasier

Evening Maga...

Family Feud

Jeopardy!

Little Salgo...

The NewsHour With Jim Le...

Antiques Roa...

TV Guide

Friends

Power of Att...

Carta de Angel

6:00 PM

7:00 PM

7:30 PM

Scary Movie

Sinfeld

Local Origination

Frasier

Evening Maga...

Family Feud

Jeopardy!

Little Salgo...

The NewsHour With Jim Le...

Antiques Roa...

TV Guide

Friends

Power of Att...

Carta de Angel

6:00 PM

7:00 PM

7:30 PM

Scary Movie

Sinfeld

Local Origination

Frasier

Evening Maga...

Family Feud

Jeopardy!

Little Salgo...

The NewsHour With Jim Le...

Antiques Roa...

TV Guide

Friends

Power of Att...

Carta de Angel

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Fig. 12A

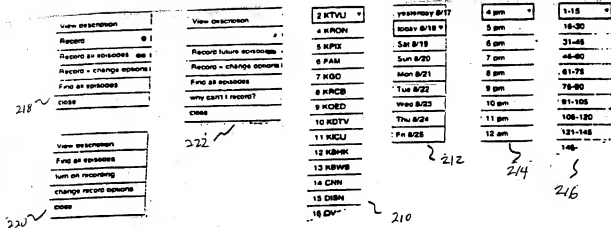
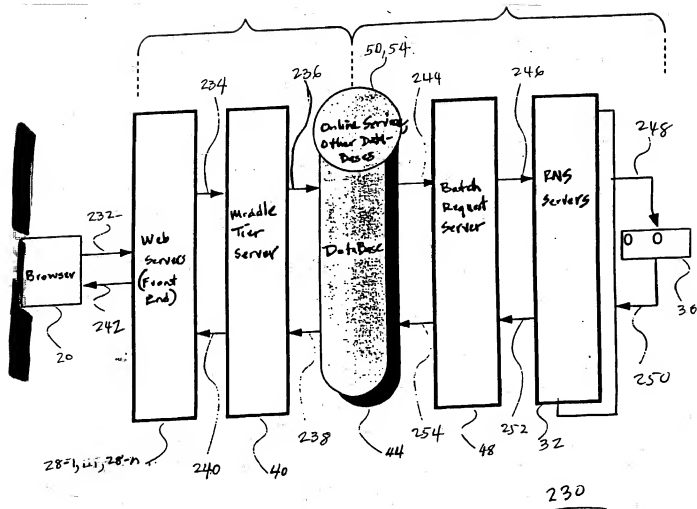


FIG. 12B



SEQUENCE DIAGRAM

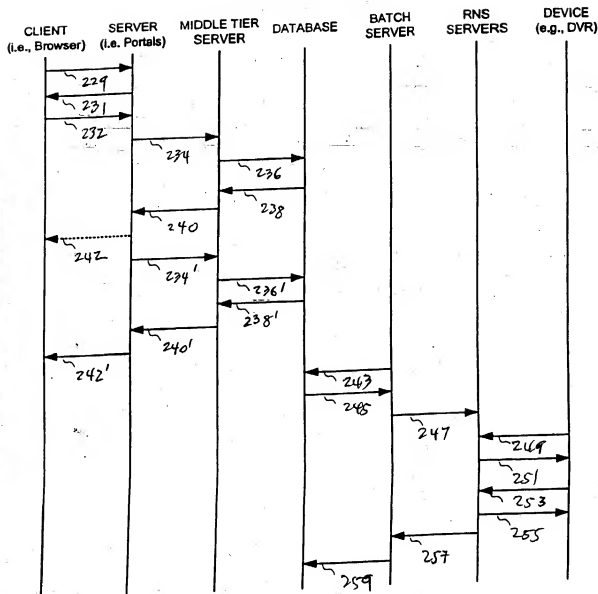


FIG. 13B

API Routine	Function
CreateAccount	Creates an account for a new user based on the information received
Login	Tries to authenticate a user based on the input username and password combination
GetProfile	Returns the profile of the user and his units based on his userid
AddRequest	Adds a request to the unit's list of pending requests based on a set of request parameters, and returns the full status of the unit and of the pending requests, including those for recording specified show(s) and deleting recorded show(s)
DeleteRequest	Delete a request from the user list of pending requests
GetReplayGuide	Returns the Replay Guide of the unit as saved in the appropriate database for the specified unit
GetChannelLineUp	Returns the channel lineup of the unit based on the unit's settings
ChangePassword	Lets the user changes his password
GetEPG	Returns the current electronic program guide for the unit based on the settings of the unit
ShowGuide	Returns detailed information about a specified show or search show details for particular shows based on criteria given as parameters

FIG. 14

API Routine	Input Parameters	Output Files (Corresponding XML elements)
CreateAccount	firstname, lastname, address1, address2, city, state, zipcode, serialnumber, login, password, creator	ACCOUNT.XML REPLAYERROR.XML
Login	login, password	ACCOUNT.XML REPLAYERROR.XML
GetProfile	userid	PROFILE.XML (USERINFO, UNITINFO-) REPLAYERROR.XML
AddRequest	userid, unitid, rectype(none, show, theme, update) rectype(show, showtype(single, repeat, manual single, manual repeat), headendid, tmkid, device, starttimegmt, name, durationinminutes, hptutsource, quality, guaranteedrecord, numrepeats, weekdayflags, earliestinminutes, showgueminutes rectype(show, searchterm, searchflags, suzukiid, durationinminutes, quality, guaranteedrecord rectype(update, updateid, deleteid, preserve, show, deletechannel), channelid, showid	UNITSTATUS.XML (UNITINFO, REQUESTSTATUS-) REPLAYERROR.XML *Note: REQUESTSTATUS Result=PENDING, SENT, SUCCESS, GENERAL FAILURE, SCHEDULEFAILURE, ROOMFAILURE
DeleteRequest	userid, unitid, requestid	DELETERESULT.XML REPLAYERROR.XML
GetReplayGuide	userid, unitid	GUIDE.XML (REPLAYCHANNEL-) REPLAYERROR.XML *Note: REPLAYCHANNEL Type=(SINGLE, SINGELMANUAL, REPEAT, REPEATMANUAL, THEME, THEMEEXACT, ZONE)
GetChannelLineUp	userid, unitid	CHANNELLINEUP.XML (CHANNEL-) REPLAYERROR.XML
ChangePassword	userid, currentpassword, newpassword	ACCOUNT.XML REPLAYERROR.XML
GetEPG	userid, unitid, starttimegmt, durationinminutes, startchannel, channelcount	XML file based on tvguide.dtd & tvprograms.dtd REPLAYERROR.XML
ShowGuide	userid, unitid, query, start, count, levelofdetail *Note: query keywords include actor, advisory, desc, impaired, title, etc.	XML file based on tvguide.dtd & tvprograms.dtd REPLAYERROR.XML

FIG. 15

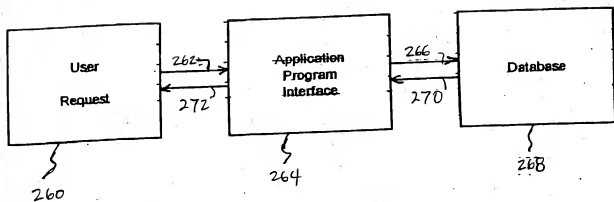


FIG. 16A

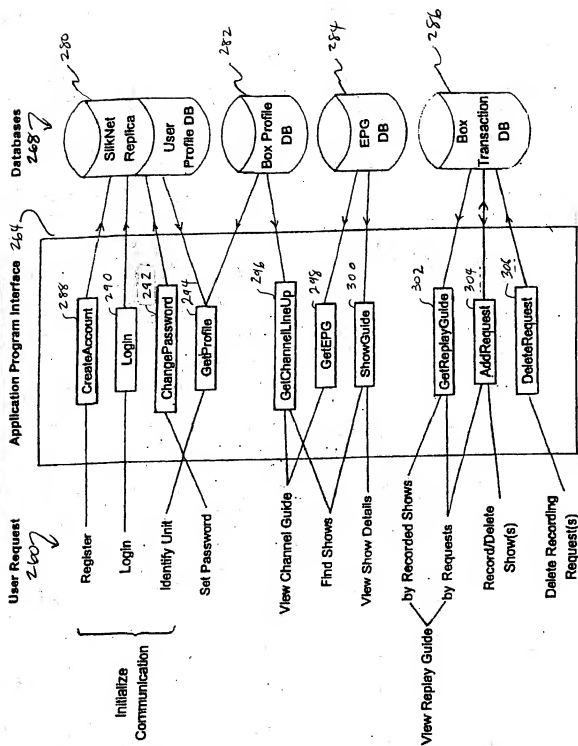


FIG. 16B

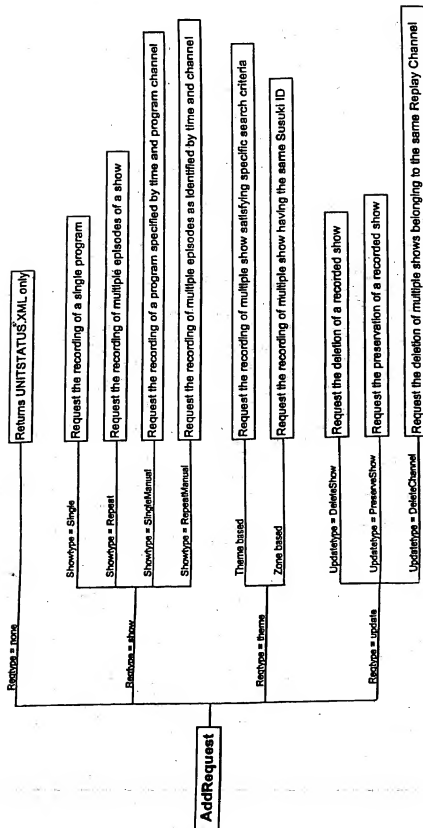


FIG. 17

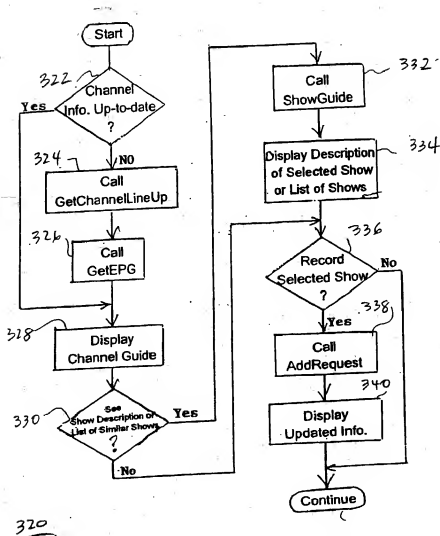


FIG. 18



Replay Guide

Replay Shows | Replay Channels

Channel Guide | Replay Guide | Find Shows | Manual Replay

Preferences | Help | Logout

Invalid and edit your schedule and requesting replay are required

Business Scheduled Channel

Title: "Method and System For Remote Television Replay"
Application No.: Not Yet Assigned
Inventors: Millard E. Sweat, III, et al.
Atty. Docket No.: 22407-05391; Case 5391 US
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009925109 .080801

FIG. 19A

Channel	Details	Status	Request Date
<input type="checkbox"/> A Fistful of Dollars	This single record Replay channel was scheduled to record A Fistful of Dollars from Channel 21(TBS) on Sun, 02/18 at or around 7:00AM - 9:00AM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		02/18
<input type="checkbox"/> Blown Away	This single record Replay channel was scheduled to record Blown Away from Channel 42(USAP) on Tue, 01/16 at or around 9:00PM - 11:30PM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		01/16
<input type="checkbox"/> Cantonese News	This show-based Replay channel will continuously record the 1 most current episode(s) of Cantonese News occurring every (Sun, Mon, Tue, Wed, Thu, Fri, Sat) on Channel 8(KTSF) at or around 8:00PM - 9:00PM. Guaranteed at EXTENDED quality.		02/28
<input type="checkbox"/> Captain January	This single record Replay channel was scheduled to record Captain January from Channel 49(AMC) on Tue, 01/09 at or around 3:30AM - 5:00AM. Guaranteed at EXTENDED quality. Nothing else is scheduled to record.		01/09



Preferences Help Logout

Channel Guide Replay Guide Find Shows Manage Record

Replay Guide

Replay Shows

Replay Channels

Review and edit recordings as well as your ReplayTV units

Channel Name

Channel	Show Title/Episode	Date/Time	Station	Duration	Size
A Fistful of Dollars	<input type="checkbox"/> A Fistful of Dollars	02/18 7:00AM	21 TBS	(2h)	6.46%
Blown Away	<input type="checkbox"/> Blown Away	01/16 9:00PM	42 USAP	(2h 30m)	8.07%
Captain January	<input type="checkbox"/> Captain January	01/09 3:30AM	49 ANC	(1h 30m)	4.84%
Firewalker	<input type="checkbox"/> Firewalker	02/27 8:00PM	21 TBS	(2h)	6.46%
On Deadly Ground	<input type="checkbox"/> On Deadly Ground	01/07 9:00PM	4 KRON	(2h)	6.46%
Platoon	<input type="checkbox"/> Platoon	02/04 8:00PM	37 TNT	(2h 30m)	8.07%
The Bridge on the River Kwai	<input type="checkbox"/> The Bridge on the River Kwai	12/24 8:00AM	42 USAP	(3h 30m)	11.30%
The Little Princess	<input type="checkbox"/> The Little Princess	12/26 4:15AM	49 ANC	(1h 45m)	5.65%
The Trouble With Harry	<input type="checkbox"/> The Trouble With Harry	12/18 1:05PM	49 ANC	(1h 55m)	6.19%
Welcome to ReplayTV	<input type="checkbox"/> Welcome to ReplayTV	09/08 10:49AM		(15m)	2.42%

FIG. 19B

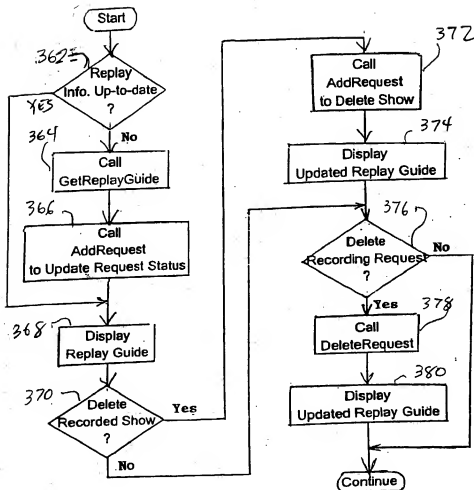


FIG. 20

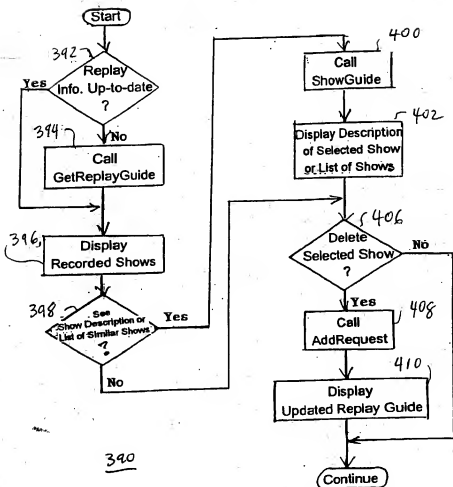


FIG. 21

Find:

Enter the word or phrase that you wish to find.

In these categories:

- ☒ Show Titles ☐ Actors
☒ Descriptions ☐ Directors

Find Shows

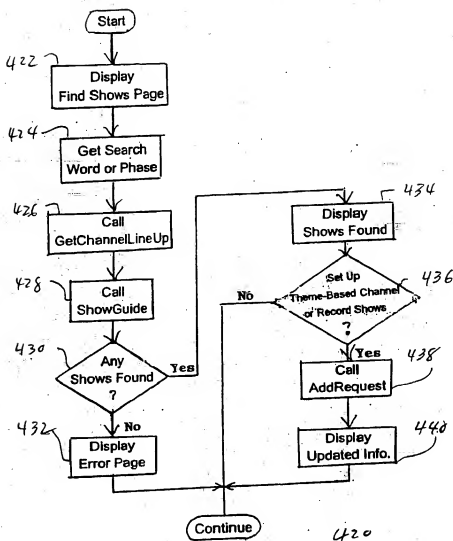


FIG. 23



Start Date Mar 7 2001

Start Time : AM

End Time : AM

Channel OXYGEN

Quality Extended

Guaranteed Yes

Submit Request

Recording duration:

Title: "Method and System For
Remote Television Replay"
Application No.: Not Yet Assigned
Inventors: Millard E. Sweatt, III, et al.
Atty. Docket No.: 22407-05391; Case 5391 US
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FIG. 24A

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my replaytv preferences help logout

Channel Guide Find Shows Manual Record Replay Guide

Manual Record 3h 45m available at medium quality as of last connection

Single Recording Repeat Recording

Days ☐ Mon ☒ Tue ☐ Wed ☐ Thu ☐ Fri ☐ Sat ☐ Sun

Start Time 7 : 58 PM ▼ End Time 11 : 02 PM ▼

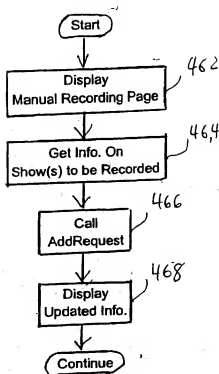
Channel 4 KRON ▼

Quality Standard ▼

Guaranteed Yes ▼

452

FIG. 24B



460

FIG. 25

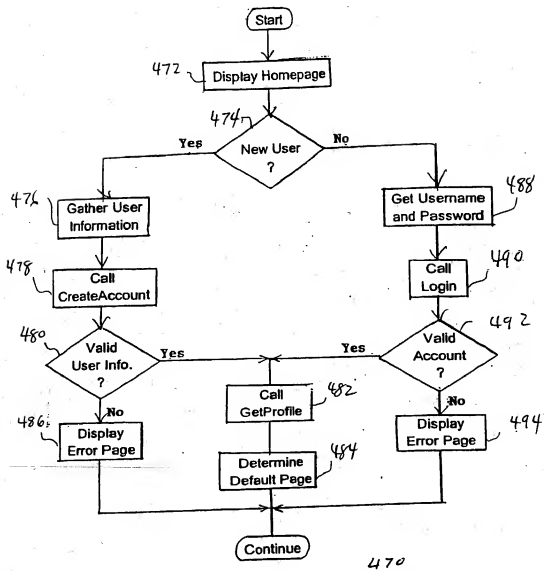


FIG. 26

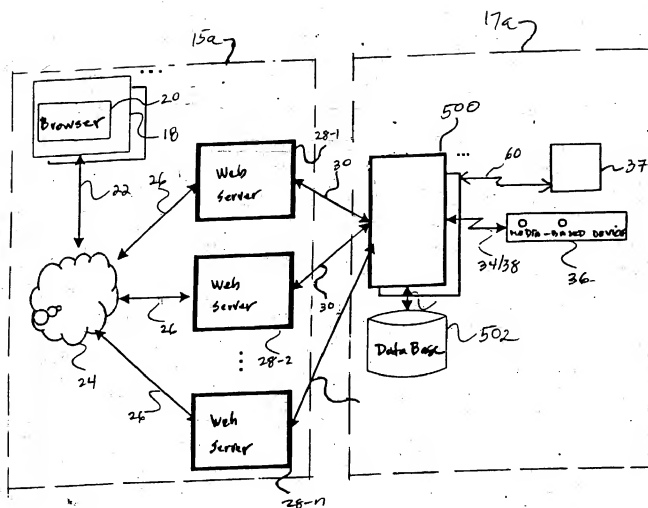


FIG. 27

19A

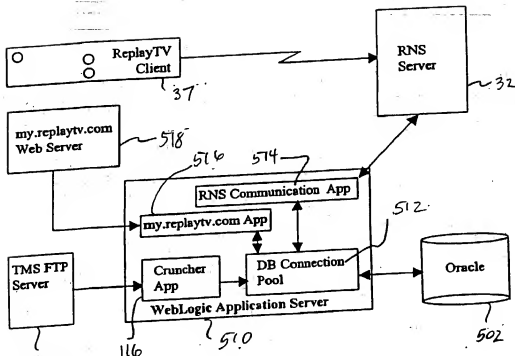


FIG. 28

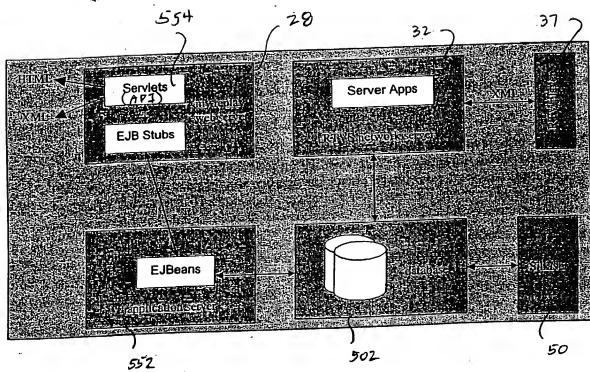


FIG. 29

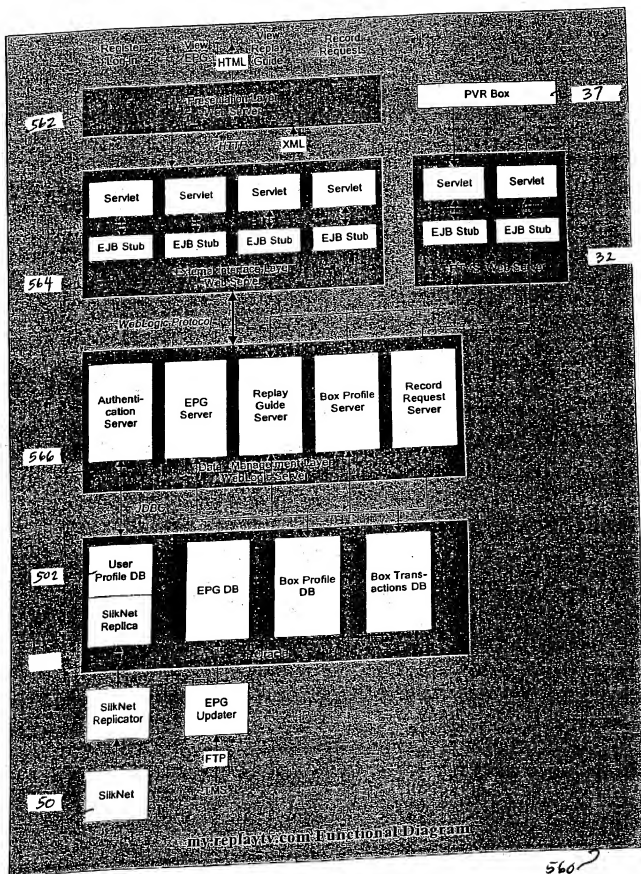


FIG 30

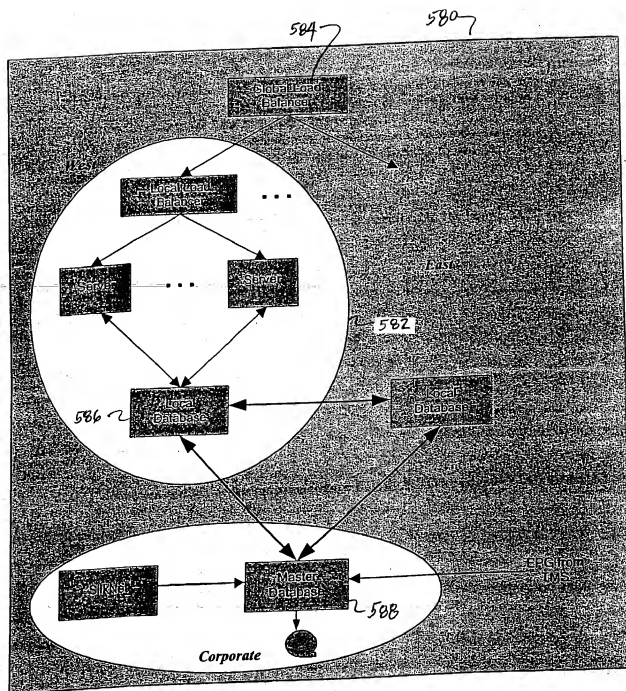


FIG. 31